

10/781855

DERWENT- 1988-358510  
ACC-NO:

DERWENT- 198850  
WEEK:

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TITLE: Oxygen-donating agent for agricultural use - contains alkaline earth metal peroxide, magnesium sulphate-anhydrate, poly:hydrate and their complex cpds., and basic cpd.

PATENT-ASSIGNEE: ISHIHARA HIRYO KOGY[ISHIN]

PRIORITY- 1986JP-0311656 (December 26, 1986) , 1987JP-0321691  
DATA: (December 18, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 63270612 A</u>	November 8, 1988	N/A	006	N/A

JP 94051608 B2	July 6, 1994	N/A	006	A01N 059/00
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP 63270612A	N/A	1987JP-0321691	December 18, 1987
JP 94051608B2	N/A	1987JP-0321691	December 18, 1987
JP 94051608B2	Based on	JP 63270612	N/A

INT-CL (IPC): A01C001/06, A01N025/22 , A01N059/00 , C05G003/00

ABSTRACTED-PUB-NO: JP 63270612A

BASIC-ABSTRACT:

An oxygen-donating agent comprises (a) an alkaline earth metal peroxide as active ingredient, (b) at least one magnesium cpd. selected from magnesium sulphate (anhydrate to hexahydrate) and

magnesium sulphate complex obtd. by dehydrating one mol. or more from the max. hydrated state of water of crystallisation (anhydrate to polyhydrate), and (c) a basic substance.

(a) is formed by treating a mixt. of calcium peroxide, magnesium peroxide, Ca-cpd., and Mg-cpd. with H<sub>2</sub>O<sub>2</sub>. Pref. Ca-cpd. and Mg-cpd. are blended in a molar ratio of 9.9-0.1-3.2 as calcium oxide and magnesium oxide in citric sol. magnesium oxide, and the resulting mixt. is treated with H<sub>2</sub>O<sub>2</sub> to obtain a solid. (b) is magnesium potassium sulphate, magnesium sulphate fertiliser, processed magnesium fertiliser, manganese magnesium sulphate fertiliser and processed boron magnesium fertiliser. (c) is slaked lime, quick lime, magnesium hydroxide and light fired magnesia.

USE/ADVANTAGE - Applied to seeds to accelerate germination. (b) and (c) improve the stability of the agent. The oxygen-donating effect is also improved.

**CHOSEN-** Dwg.0/0  
**DRAWING:**

**TITLE-** OXYGEN DONATING AGENT AGRICULTURE CONTAIN ALKALINE EARTH  
**TERMS:** METAL PEROXIDE MAGNESIUM SULPHATE ANHYDRATE POLY HYDRATE  
COMPLEX COMPOUND BASIC COMPOUND

**DERWENT-CLASS:** C03 P11

**CPI-CODES:** C05-A01A; C05-A01B; C12-N09; C12-P04;

**CHEMICAL-** Chemical Indexing M2 \*01\* Fragmentation Code A212 A220  
**CODES:** A940 C408 C550 C730 C801 C802 C803 C804 C805 C807 M411  
M431 M782 M903 M904 P134 Specfic Compounds 04118M 04787M  
Registry Numbers 3102R 1678D

Chemical Indexing M2 \*02\* Fragmentation Code A212 A940  
C108 C316 C540 C730 C801 C802 C803 C804 C805 M411 M431  
M782 M903 M904 M910 P112 P134 Q620 Specfic Compounds  
01680M Registry Numbers 3102R 1678D

Chemical Indexing M2 \*03\* Fragmentation Code A119 A212  
A940 C108 C316 C540 C730 C801 C802 C803 C804 C805 M411  
M431 M782 M903 M904 P134 Q620 Specfic Compounds 10172M  
Registry Numbers 3102R 1678D

Chemical Indexing M2 \*04\* Fragmentation Code A212 A220  
A940 C101 C108 C550 C730 C801 C802 C804 C805 C807 M411  
M431 M782 M903 M904 M910 P134 Q620 Specfic Compounds  
01502M 01509M Registry Numbers 3102R 1678D

Chemical Indexing M2 \*05\* Fragmentation Code A212 A220  
A940 C108 C550 C730 C801 C802 C803 C804 C805 C807 M411  
M431 M782 M903 M904 M910 P134 Q620 Specific Compounds  
01503M 01510M Registry Numbers 3102R 1678D

UNLINKED-DERWENT-REGISTRY- ; 1502U ; 1503U ; 1509U ; 1510U ;  
NUMBERS: 1680U

**SECONDARY-ACC-NO:**

CPI Secondary Accession Numbers: C1988-158757

Non-CPI Secondary Accession Numbers: N1988-271672